

IN THE CLAIMS:

Please amend claims 31, 33 and 34 and cancel claim 32 as shown in the following listing of claims. This listing of claims will replace all prior versions and listings of claims in the application.

1-30. (cancelled)

31. (currently amended) A transmission system, comprising:

a transmission line interface having at least one port;

a two-way transmission line coupled to one of the ports; and

a device coupled to the two-way transmission line, the device selectively coupling the two-way transmission line together when the device requires power,

wherein the transmission line interface outputs first and second pulses to the device through the two-way transmission line, each of the pulses having a pulse width different from one another.

32. (cancelled)

33. (currently amended) The transmission system of claim ~~[[32]]~~ 31 wherein the second pulse width is programmable.

34. (currently amended) The transmission system of claim ~~[[32]]~~ 31 wherein the transmission line interface determines that the device requires power when the transmission line interface detects the first pulse from the two-way transmission line but not the second pulse.

35. (previously presented) The transmission system of claim 34 wherein the transmission line interface further comprises a power source selectively coupled to the device through the two-way transmission line when the transmission line interface determines that the device

requires power.

36. (previously presented) The transmission system of claim 31 wherein the transmission line interface outputs a signal to the device through the two-way transmission line, and the transmission line interface determines that the device requires power when the transmission line interface detects the signal from the device through the two-way transmission line.

37. (previously presented) The transmission system of claim 36 wherein transmission line interface determines that the device requires power only if the transmission line interface detects the signal from the device through the two-way transmission line within a predetermined time after the transmission line interface outputs the signal.

38. (previously presented) The transmission system of claim 37 wherein the transmission line interface further comprises a power source selectively coupled to the device through the two-way transmission line when the transmission line interface determines that the device requires power.

39. (previously presented) The transmission system of claim 31 wherein the transmission line interface outputs a pseudo random word comprising a plurality of pulses.

40. (previously presented) The transmission system of claim 31 wherein the transmission line interface outputs a identifier comprising a plurality of pulses.

41. (previously presented) The transmission system of claim 31 wherein the transmission line interface comprises a power source selectively coupled to the device through the two-way transmission line.

42. (previously presented) The transmission system of claim 31 wherein the device comprises an IP telephone.

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43. (previously presented) The transmission system of claim 31 further comprising a second device not requiring power.

44. (previously presented) The transmission system of claim 43 wherein the device comprises an IP telephone and the second device comprises a computer.

45. (previously presented) The transmission system of claim 43 wherein the transmission line interface comprises a power source selectively coupled to the device through the two-way transmission line.

46. (previously presented) The transmission system of claim 45 wherein the transmission line interface provides two-way communication between the device and the second device when the power source is selectively coupled to the device.

47. (previously presented) The transmission system of claim 31 wherein the transmission line interface comprises a switch.

48-53. (cancelled)